Sara Rojas

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Career Profile

Ph.D. candidate in Computer Vision at KAUST, under the supervision of Professor Bernard Ghanem. Experience in neural rendering, 3D reconstruction, 3D-based recognition tasks, and diffusion models. Skilled at structuring all stages of research projects, from ideation and experimentation to writing with a proven track record of publications in top-tier conferences. Successful in performing in intense environments and cross-culture collaborations.

Education

2020 - 2025	Ph.D.	Electrical and Computer Engineering — KAUST	(GPA: 4.0/4.0)
2017 - 2018	M.Sc.	Biomedical Engineering — Universidad de los Andes	(GPA: 4.6/5.0)
2013 - 2016	B.E.	Electronics Engineering — Universidad de los Andes	(GPA: 4.1/5.0)

Work Experience

Research Intern — Naver Labs Europe Sep 2024 - Mar 2025
Working on 3D clothed human reconstruction based on multi-view images and MAST3R model. Supervised by Gregory Rogez (Principal Research Scientist). Paper published at ICCV25.

Research Intern — Adobe Inc. May 2023 - Sep 2023
Worked on 3D Scene Editing task using diffusion models (ControlNet) and NeRF representations. Supervised by Kalyan Sunkavalli (Principal Research Scientist). Paper published at ECCV24.

Research Intern — KAUST Jul 2019 - Dec 2019
Worked on adversarial attacks for point clouds. Supervised by Professor Bernard Ghanem at the Image and Video Understanding Lab. Paper published at ECCV20.

Research Intern — University of Southern California Jun 2018 – Aug 2018
Researched biomedical image segmentation for human organ vulnerability with the U.S. Army Research Lab. Supervised by Autumn Kulaga at the Institute for Creative Technologies. Authored a technical review.

Selected Publications

Fabian Perez, **Sara Rojas**, Carlos Hinojosa, Hoover Rueda-Chacon, and Bernard Ghanem (2025). "UnMix-NeRF: Spectral Unmixing Meets Neural Radiance Fields". In: ***ICCV25***.

Sara Rojas, Matthieu Armando, Bernard Ghanem, Philippe Weinzaepfel, Vincent Leroy, and Gregory Rogez (2025). "HAMSt3R: Human Aware Multi-view Stereo 3D Reconstruction". In: ***ICCV25***.

Jinjie Mai, Wenxuan Zhu, **Sara Rojas**, Jesus Zarzar, Abdullah Hamdi, Guocheng Qian, Bing Li, Silvio Giancola, and Bernard Ghanem (2024). "TrackNeRF: Bundle Adjusting NeRF from Sparse and Noisy Views via Feature Tracks". In: ***ECCV24***.

Sara Rojas, Julien Philip, Kai Zhang, Sai Bi, Fujun Luan, Bernard Ghanem, and Kalyan Sunkavalli (2024). "DATENeRF: Depth-Aware Text-based Editing of NeRFs". In: ***ECCV24***.

Sara Rojas, Jesus Zarzar, Juan C. Perez, Artsiom Sanakoyeu, Ali Thabet, Albert Pumarola, and Bernard Ghanem (2023). "Re-ReND: Real-time Rendering of NeRFs across Devices". In: ***ICCV23***.

Sara Rojas*, Jesus Zarzar*, Silvio Giancola, and Bernard Ghanem (2022). "SegNeRF: 3D Part Segmentation with Neural Radiance Fields". In: *ArXiv:2211.11215*.

Abdullah Hamdi, **Sara Rojas**, Ali Thabet, and Bernard Ghanem (2020). "AdvPC: Transferable Adversarial Perturbations on 3d Point Clouds". In: ***ECCV20***.

Skills and Interests

Software Skills: Python, Tensorflow, PyTorch, MATLAB, and GLSL
Languages: English (Professional Working Proficiency), Spanish (Native)
Interests: Wall and rock climbing, reading non-fiction books, gyming and travelling.